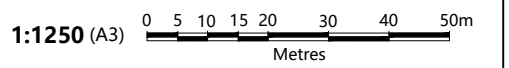




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DETAIL PLAN

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No.	AMENDMENT	DATE	DRAWN	CHECK'D	AUTH'D

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ABN: 66 056 544 551 Office: 021 6361 2281
Email: survey@ceh.com.au Website: www.ceh.com.au

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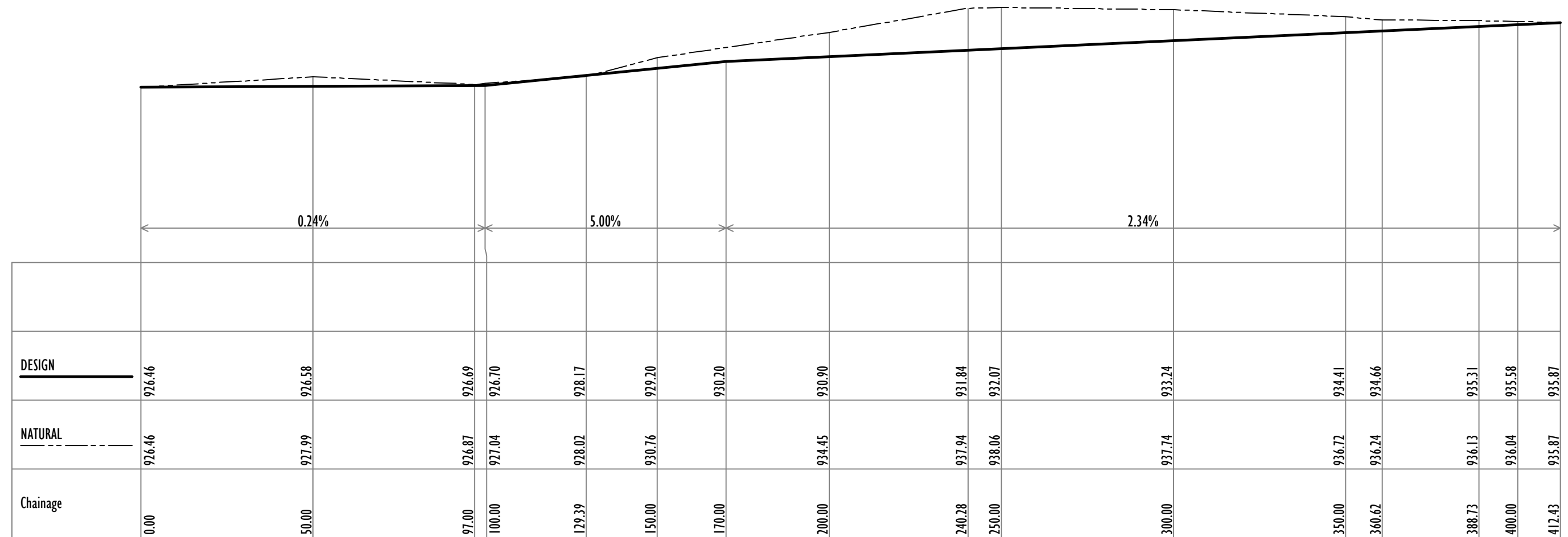
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CLIENT: CEEDIVE O'Connor

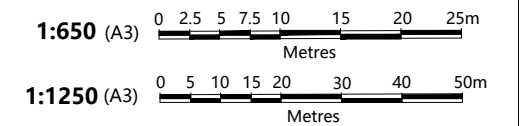
LOCALITY: POTTERY ESTATE/SHEEDYS GULLY

LGA: LITHGOW CITY

PLAN: CONCEPT ROAD DETAIL PLAN VALLEY DRIVE, POTTERY ESTATE NSW 2790 PROPOSED LOT 2 OF LOT 26 DP1244557 21 WILLOWBANK AVENUE, SHEEDYS GULLY NSW 2790			
SURVEY/DESIGN: P.SILINIS	DRAWN: D.MACKIE	DATE: MAR-2024	PLAN No. 4883_STG 3 CEW_01



CONCEPT ROAD - LONGITUDINAL SECTION
 CH 0.000 to CH 412.43
 HOR 1:1250 VER 1:625



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SCALE: AS SHOWN ISO full bleed A3 (420.00 x 297.00 MM)

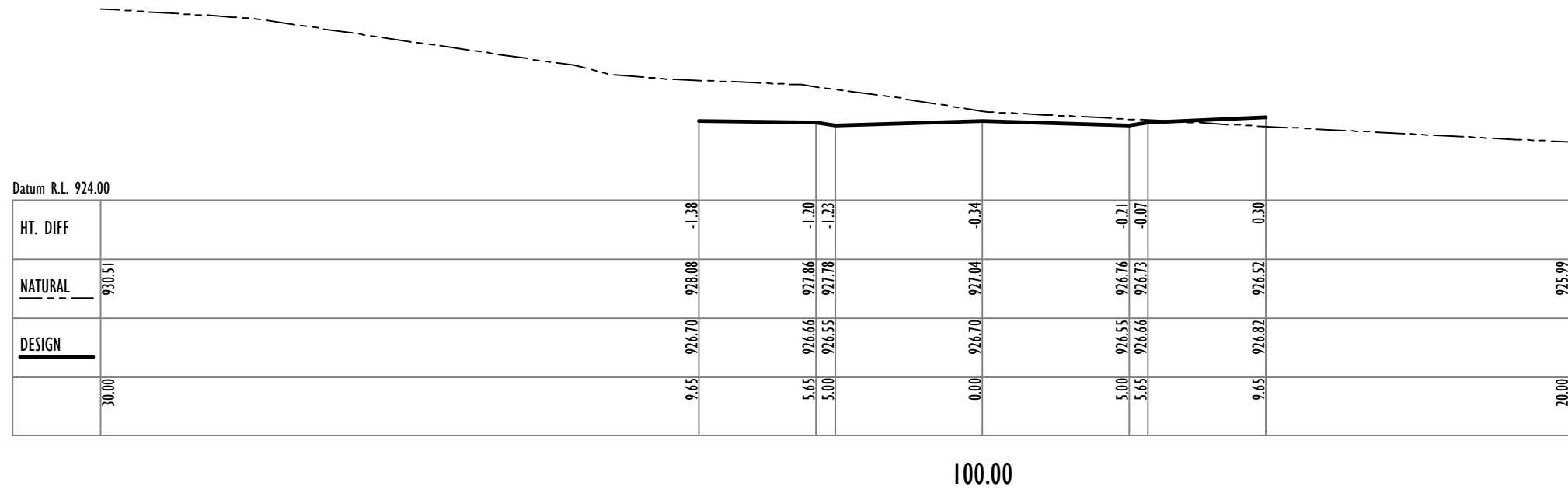
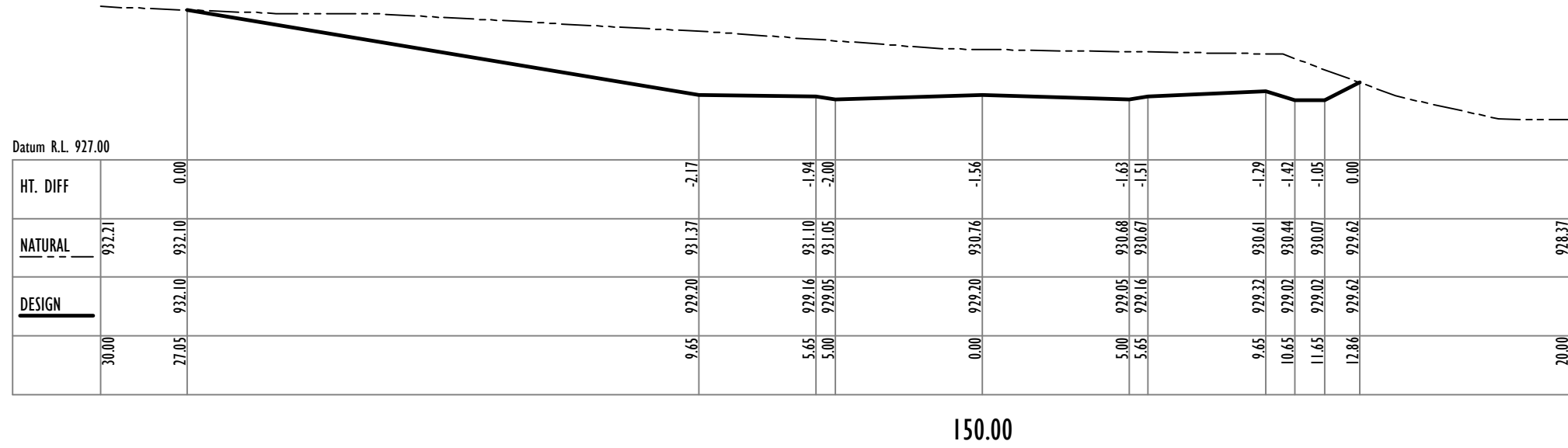
CLIENT: CEEDIVE O'Connor

LOCALITY: POTTERY ESTATE/SHEEDYS GULLY

LGA: LITHGOW CITY

PLAN: **CONCEPT ROAD - LONGITUDINAL SECTION**
 VALLEY DRIVE, POTTERY ESTATE NSW 2790
 PROPOSED LOT 2 OF LOT 26 DP1244557
 21 WILLOWBANK AVENUE, SHEEDYS GULLY NSW 2790

SURVEY/DESIGN: P.SILINIS	DRAWN: D.MACKIE	DATE: MAR-2024	PLAN No. 4883_STG 3 CEW_02
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CONCEPT ROAD - CROSS SECTIONS
CH 100.00 to CH 150.00
HOR 1:200 VER 1:200



No.	AMENDMENT	DATE	DRAWN	CHECK'D	AUTH'D

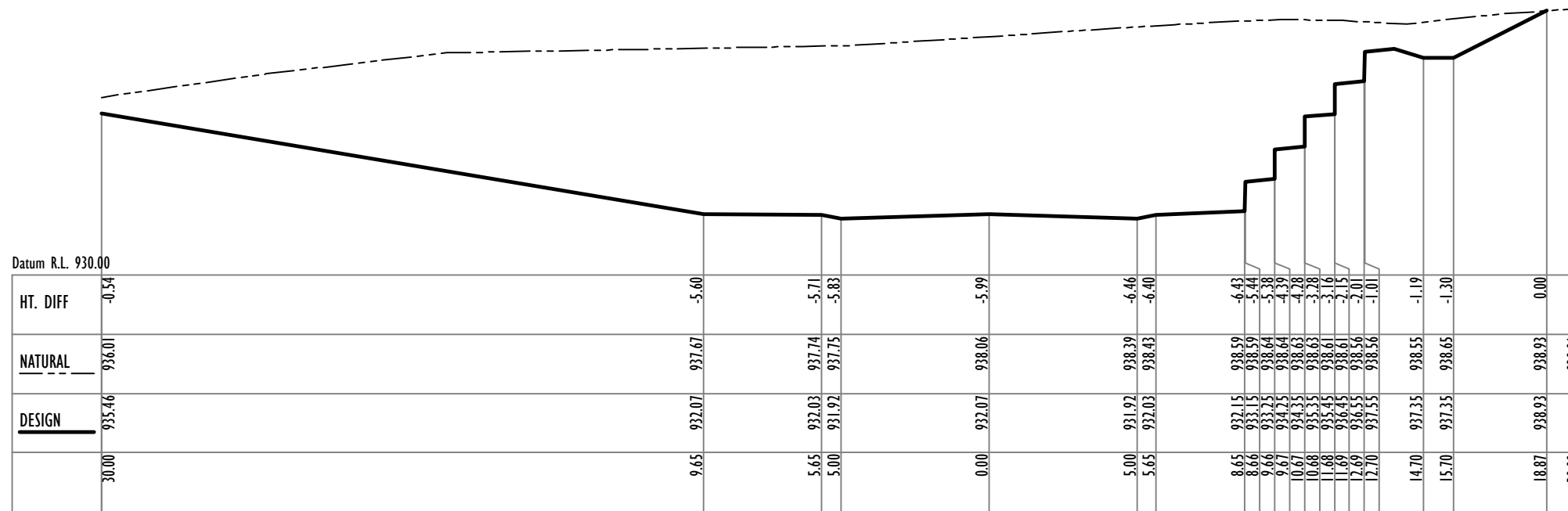
CEH SURVEY
CONSULTING LAND, ENGINEERING AND MINING SURVEYORS
"Australasia" 1 Rutherford Lane,
LITHGOW 2790
ABN: 66 056 544 551 Office: (02) 6351 2281
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SCALE: AS SHOWN ISO full bleed A3 (420.0 x 297.0 MM)

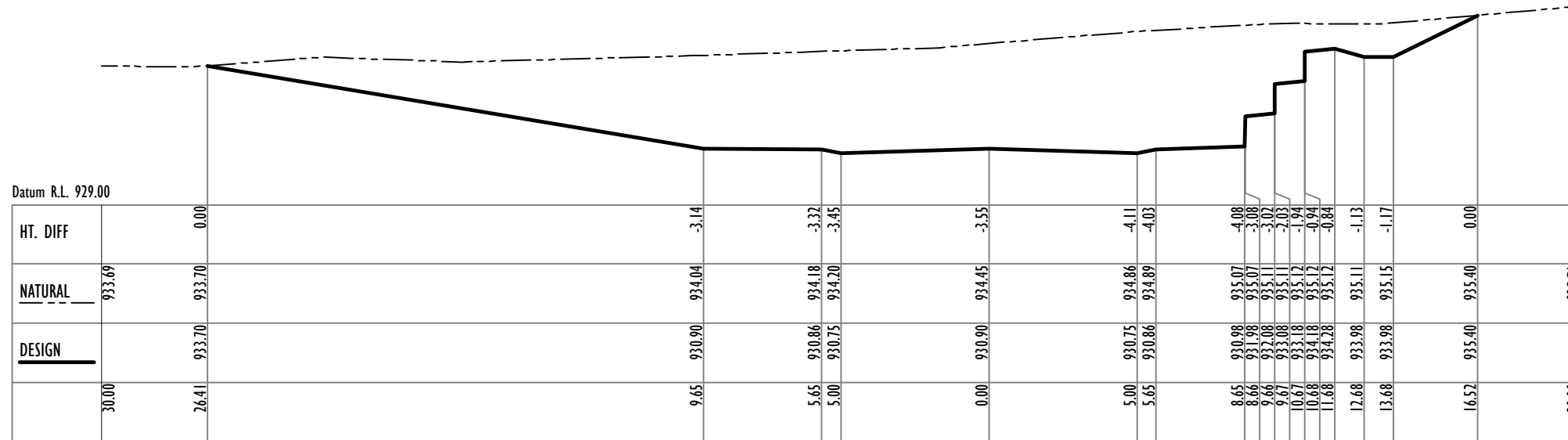
CLIENT: CEEDIVE O'Connor
LOCALITY: POTTERY ESTATE/SHEEDYS GULLY
LGA: LITHGOW CITY

PLAN: **CONCEPT ROAD - CROSS SECTIONS**
CH100.00 TO CH150.00
VALLEY DRIVE, POTTERY ESTATE NSW 2790
21 WILLOWBANK AVENUE, SHEEDYS GULLY NSW 2790

SURVEY/DESIGN: P.SILINIS
DRAWN: D.MACKIE
DATE: MAR-2024
PLAN No. 4883_STG 3 CEW_03

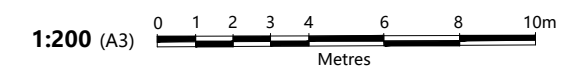


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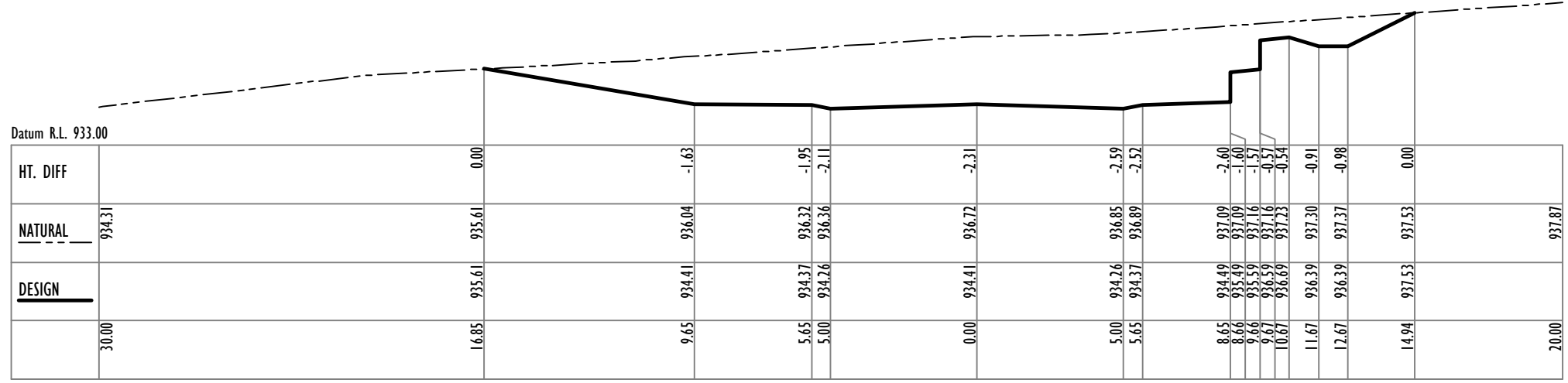


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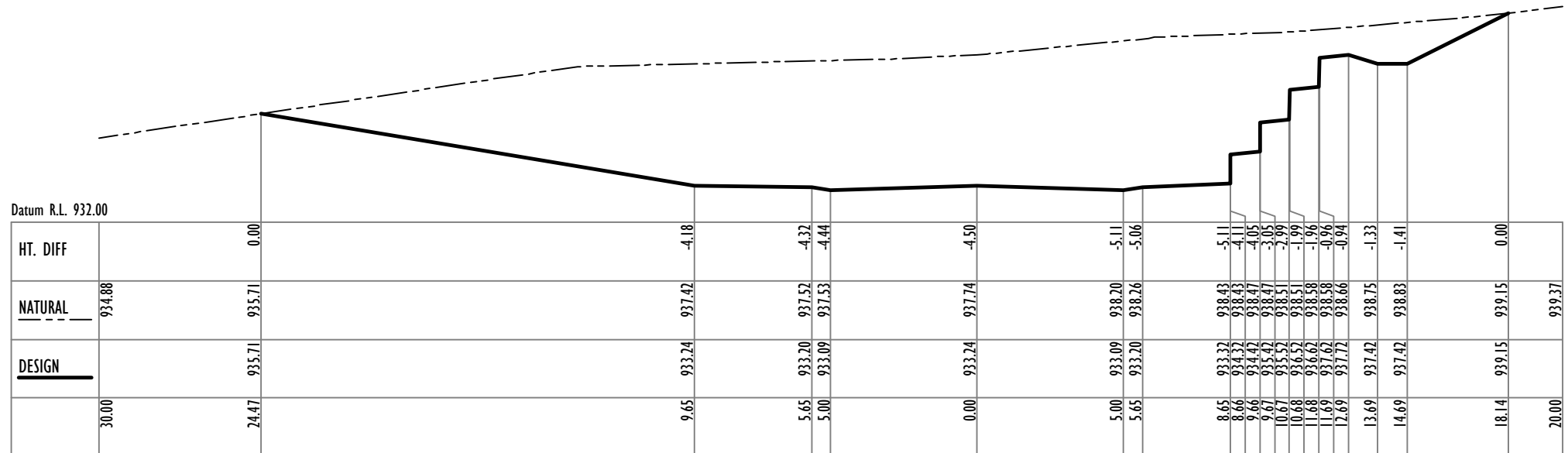
PROPOSED ROAD - CROSS SECTIONS
 CH 200.00 to CH 250.00
 HOR 1:200 VER 1:200



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	Liability limited by a scheme approved under Professional Standards Legislation.							LOCALITY:	POTTERY ESTATE/SHEEDYS GULLY	SURVEY/DESIGN:	P.SILINIS	DRAWN:	D.MACKIE	DATE:	MAR-2024	PLAN No.
SCALE: AS SHOWN ISO full bleed A3 (420.00 x 297.00 MM)							LGA:		LITHGOW CITY							

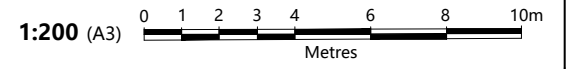


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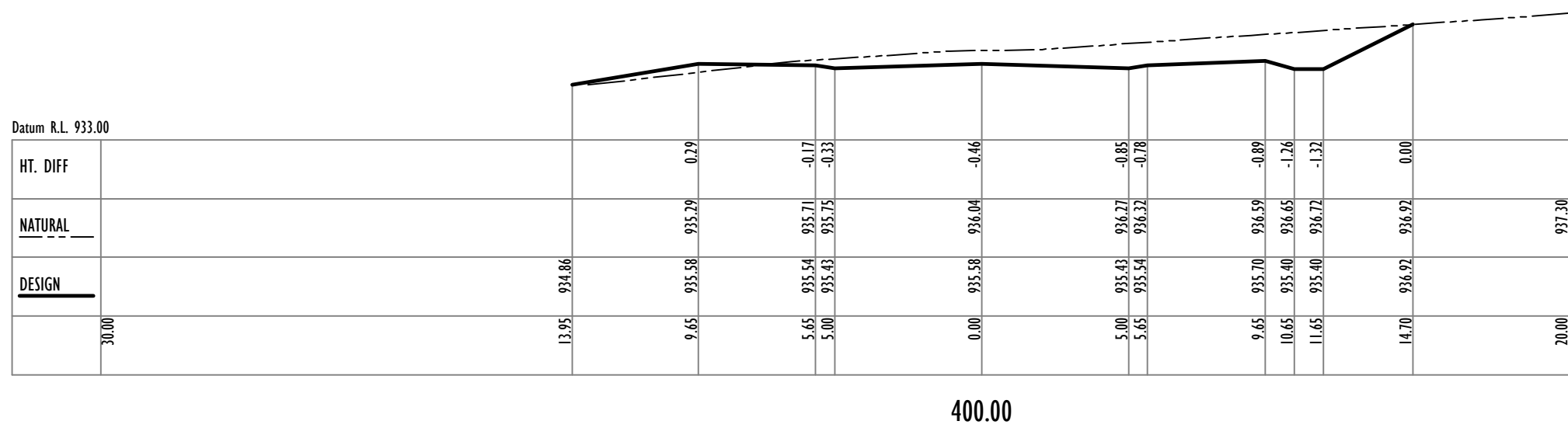
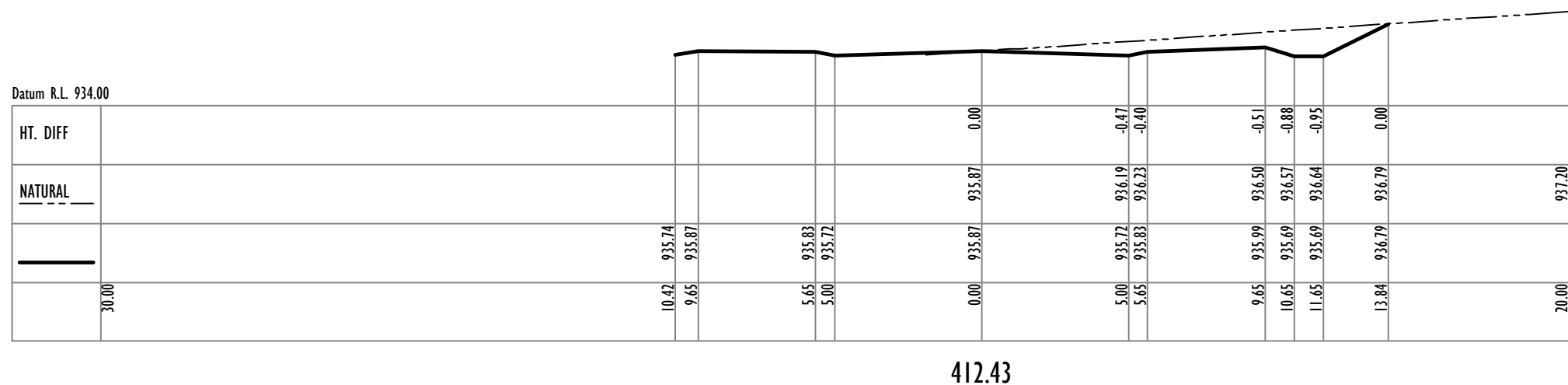


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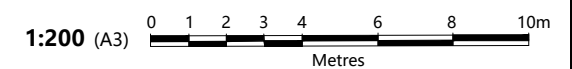
PROPOSED ROAD - CROSS SECTIONS
 CH 300.00 to CH 350.00
 HOR 1:200 VER 1:200



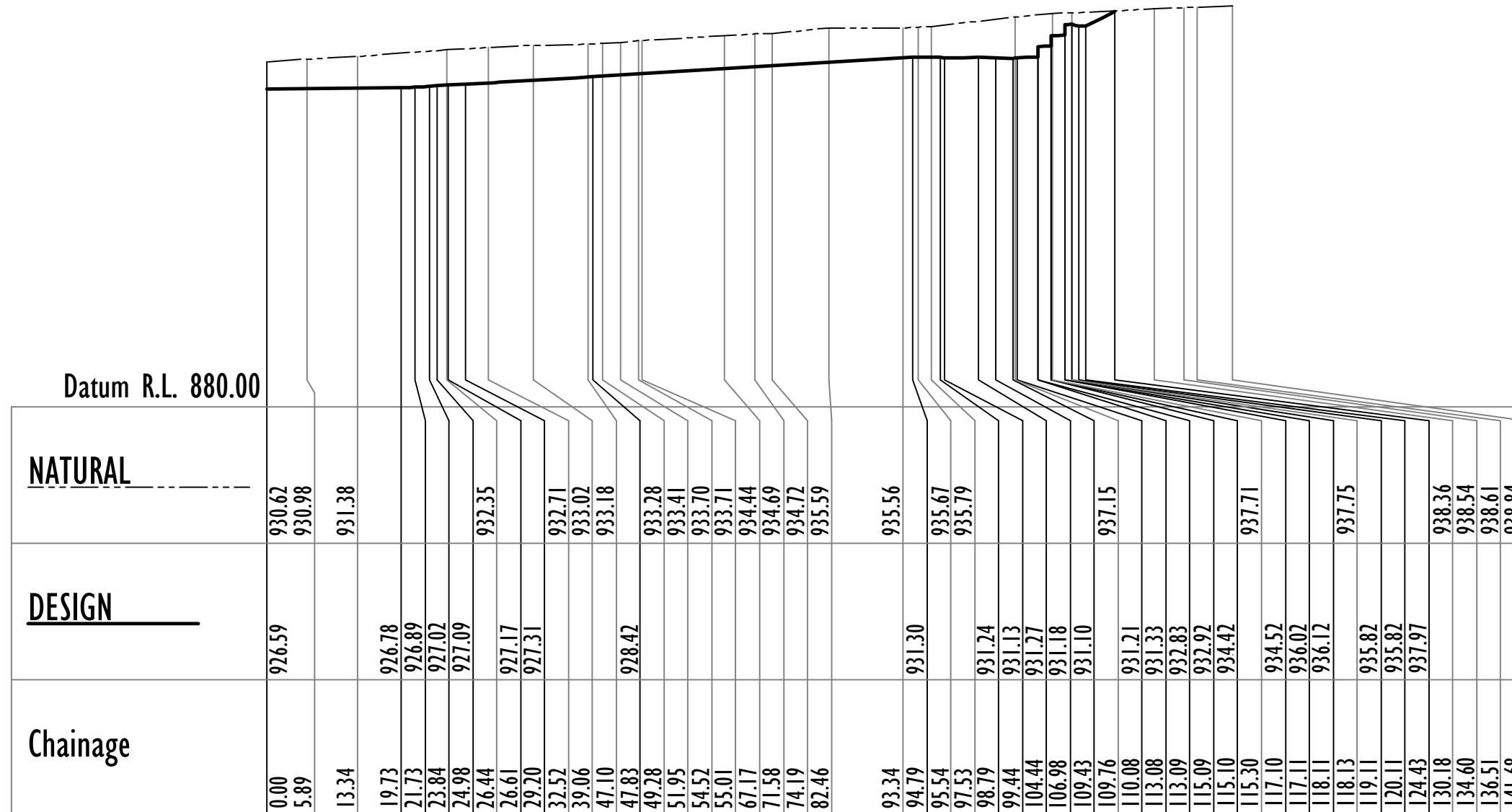
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									LOCALITY:	POTTERY ESTATE/SHEEDYS GULLY	SURVEY/DESIGN:	P.SILINIS	DRAWN:	D.MACKIE	DATE:	MAR-2024
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PROPOSED ROAD - CROSS SECTIONS
 CH 400.00 to CH 412.43
 HOR 1:200 VER 1:200



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	Liability limited by a scheme approved under Professional Standards Legislation. SCALE: AS SHOWN ISO full bleed A3 (420.00 x 297.00 MM)							LOCALITY: POTTERY ESTATE/SHEEDYS GULLY	LGA: LITHGOW CITY	SURVEY/DESIGN: P.SILINIS	DRAWN: D.MACKIE	DATE: MAR-2024



Datum R.L. 880.00

NATURAL

DESIGN

Chainage

BULK EARTHWORKS - SECTION A-A

CH 0.00 TO CH 141.68

HOR 1:800 VER 1:800



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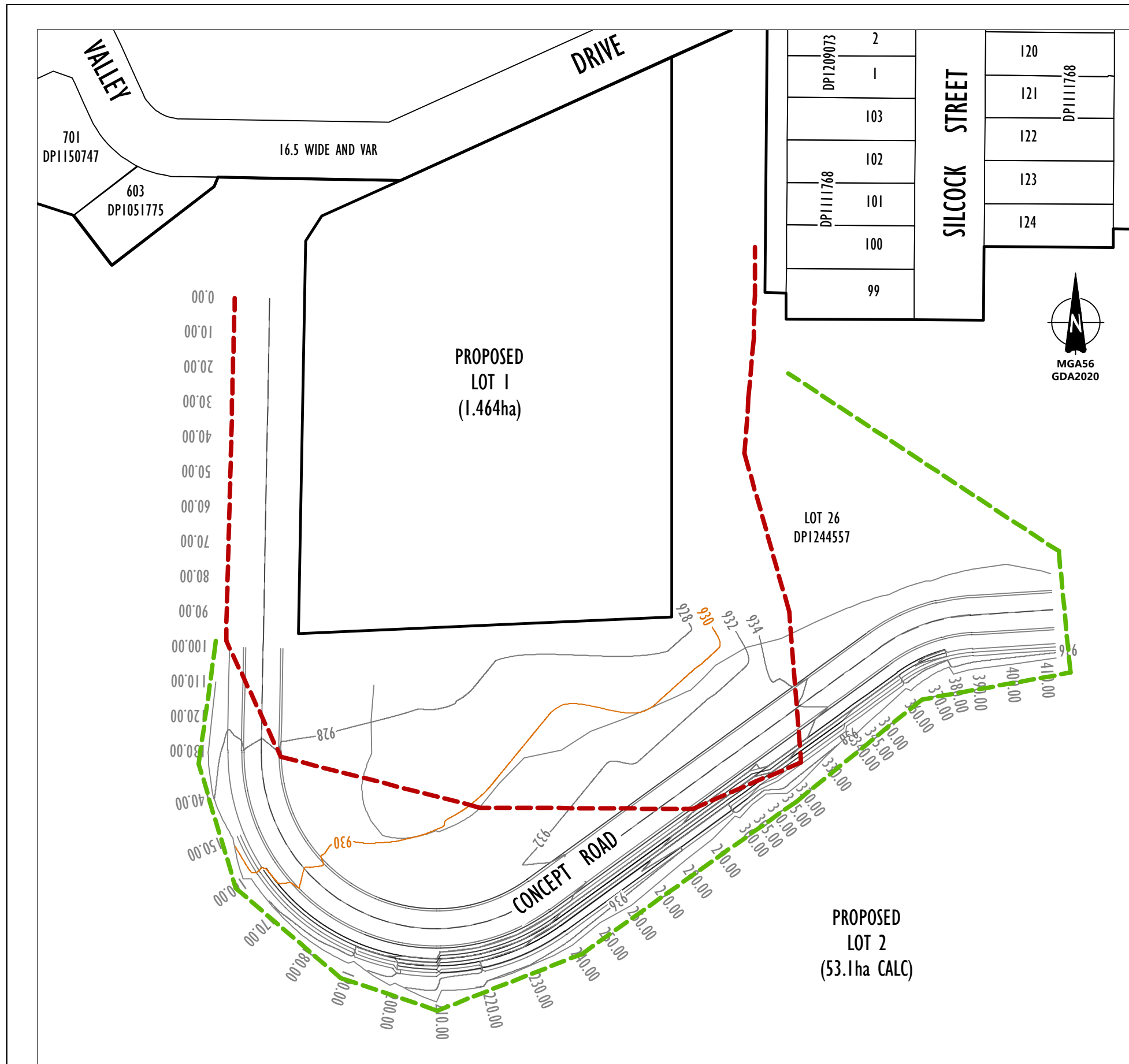
CLIENT: CEEDIVE O'Connor

LOCALITY: POTTERY ESTATE/SHEEDYS GULLY

LGA: LITHGOW CITY

PLAN: **CONCEPT ROAD - CROSS SECTION CH412.13**
BULK EARTHWORKS SECTION A-A CH0.00 TO CH141.68
VALLEY DRIVE, POTTERY ESTATE NSW 2790
21 WILLOWBANK AVENUE, SHEEDYS GULLY NSW 2790

SURVEY/DESIGN:	DRAWN:	DATE:	PLAN No.
P.SILINIS	D.MACKIE	MAR-2024	4883_STG 3 CEW_07



LEGEND

- - - - - **STAGE 2 - APPROVED LIMIT OF DISTURBANCE**
- - - - - **STAGE 3 - LIMIT OF DISTURBANCE**



DETAIL PLAN SHOWING LIMITS OF DISTURBANCE

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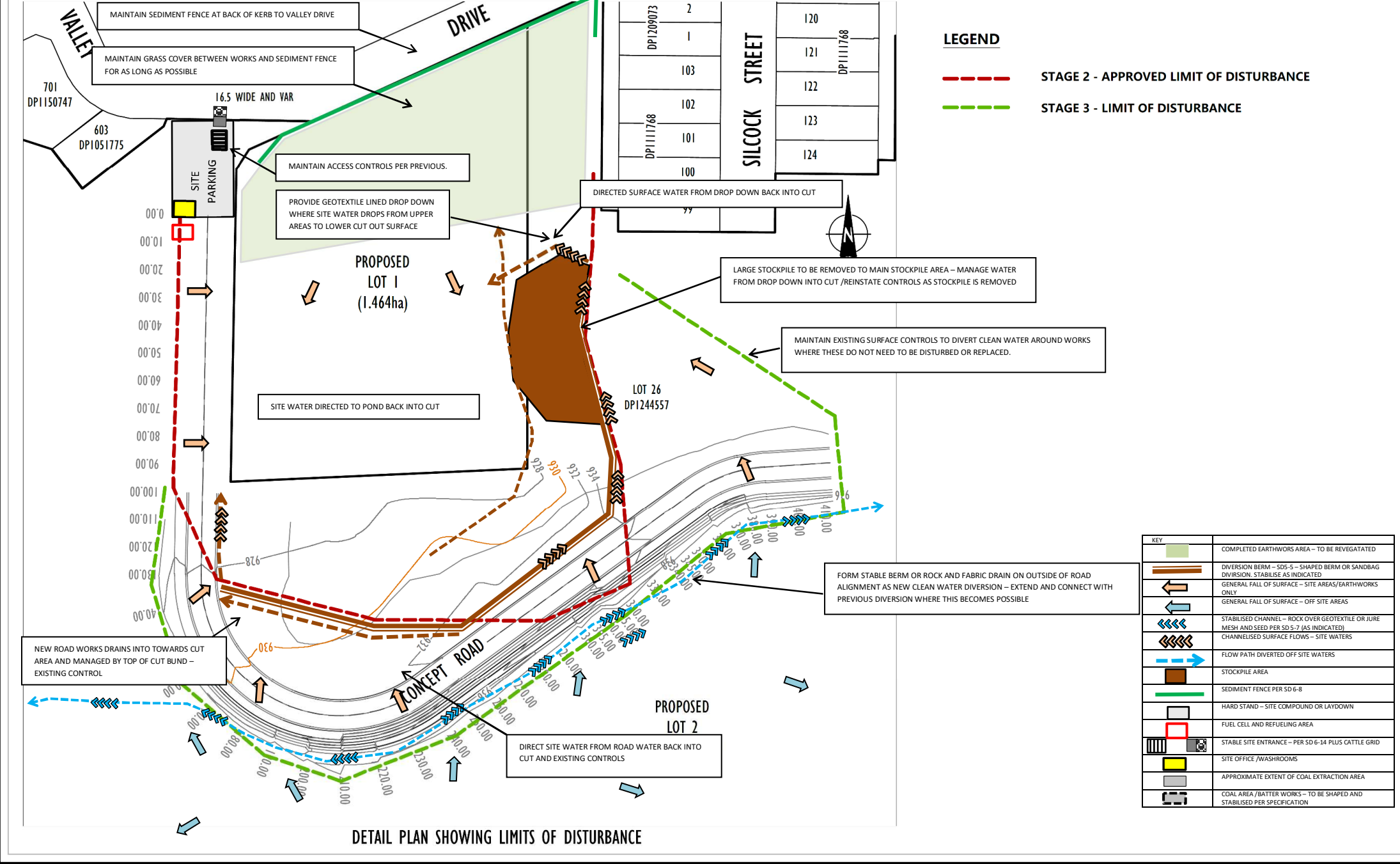
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SCALE: AS SHOWN ISO full bleed A3 (420.00 x 297.00 MM)

CLIENT:	CEEDIVE O'Connor
LOCALITY:	POTTERY ESTATE/SHEEDYS GULLY
LGA:	LITHGOW CITY

PLAN: CONCEPT ROAD LIMITS OF DISTURBANCE STAGE 2 AND STAGE 3 VALLEY DRIVE, POTTERY ESTATE NSW 2790 21 WILLOWBANK AVENUE, SHEEDYS GULLY NSW 2790			
SURVEY/DESIGN:	DRAWN:	DATE:	PLAN No.
P.SILINIS	D.MACKIE	MAR-2024	4883_STG 3 CEW_08



DETAIL PLAN SHOWING LIMITS OF DISTURBANCE

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Version: 1, Version Date: 01/07/2024

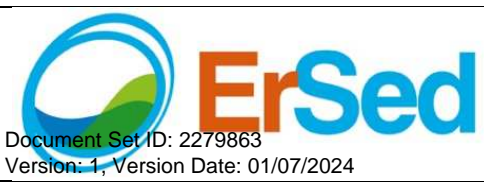
ErSed Environmental Pty Ltd
PO Box 1124 Leichhardt 2040

M. 0424 203 046
E. info@ersed.com.au

SHEETS IN THIS PLAN SET	
1. GENERAL ARRANGEMENT (SHEET 1001)	
2. NOTES AND DETAILS TO ESC (SHEET 0001)	
CLIENT BASE PLAN: CLIENT SURVEY	

ERSED REF:	21018
DRAWN	CV
CREATED	JUNE 2024
DATE THIS AMDT	06 JUNE 24
CLIENT	KEMDAR

PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN			
GENERAL ARRANGEMENT			
POTTERY ESTATE - VALLEY DRIVE			
CONCEPT ROAD WORKS			
EW	1001	1 of 2	06/06/24
PREFIX	NUMBER	SHEET	AMDT
Print Date: 17 July 2024, 8:25 AM			



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PO Box 1124 Leichhardt 2040

M. 0424 203 046
E.info@ersed.com.au

SHEETS IN THIS PLAN SET	
1. GENERAL ARRANGEMENT (SHEET 1001)	
2. NOTES AND DETAILS TO ESC (SHEET 0001)	
CLIENT BASE PLAN: CLIENT SURVEY	

ERSED REF:	21018
DRAWN	CV
CREATED	JUNE 2024
DATE THIS AMDT	06 JUNE 24
CLIENT	KEMDAR

PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN			
GENERAL ARRANGEMENT			
POTTERY ESTATE –VALLEY DRIVE			
CONCEPT ROAD WORKS			
EW	1001	1 of 2	06/06/24
PREFIX	NUMBER	SHEET	AMDT
Print Date: 17 July 2024, 8:25 AM			

NO GO ZONES

1. NIL ACCESS OUTSIDE LIMIT OF APPROVED WORKS – NO DISTURBANCE OUTSIDE LIMIT OF SEDIMENT CONTROLS

SEPARATION OF WATERS

1. EXTERNAL CATCHMENTS DIRECTED AROUND WORKS BY EARTH BERMS
2. EARTHBERMS DIRECT WORKS CATCHMENTS TO PRIMARY SEDIMENT CONTROL BASIN
3. USE NEW KERB AND GUTTERING TO DIRECT WATER TO BASIN ONCE CONSTRUCTED

EROSION CONTROL

1. NIL DISTURBANCE OUTSIDE DEFINED LIMIT OF WORKS AREA.

SEDIMENT CONTROL

1. SEDIMENT FENCE SET AT LOWEST EXTENT OF WORKS
2. SITE WATER DIRECTED TO SEDIMENT CONTROL BASINS
3. STABLE SITE ENTRANCE AT ACCESS FROM END OF EXISTING ROAD
4. STREET SWEEPER TO BE USED AS REQUIRED TO CLEAR SEDIMENT FROM ROADWAYS

GENERAL STOCKPILES

1. STOCKPILE MATERIALS ONLY AT DESIGNATED STOCKPILE AREAS – TBC ON SITE
2. ALL STOCKPILING TO BE PROTECTED WITH SEDIMENT CONTROLS
3. STABILISE STOCKPILES NOT WORKED FOR >20 DAYS
4. SHAPE AND SMOOTH STOCKPILES AS FORMED

MONITORING AND REVIEW

1. APPROXIMATE LOCATION OF CONTROLS ONLY – LOCATION TO BE CONFIRMED BY SITE PERSONNEL
2. THIS ESCP IS AN ACTIVE DOCUMENT REVIEW AND AMEND AS REQUIRED
3. CONTROLS TO BE INSPECTED AS PART OF REGULAR SITE ENVIRONMENTAL INSPECTIONS AND REPORTING AND MAINTAINED AS REQUIRED
4. ADDITIONAL INSPECTIONS OF CONTROLS TO BE CARRIED OUT PRIOR AND FOLLOWING EXTENDED SHUT DOWN & FOLLOWING RAINFALLS EVENT >10MM

DEWATERING

1. DEWATERING PER NOTES THIS SHEET

ASSESSMENT OF EROSION RISK (SOIL LOSS - REVISED UNIVERSAL SOIL LOSS EQUATION)

SOIL LOSS CALCULATION (RUSLE)

R = 1800 K = 0.05* LS = 1.0** C = 1.0 P = 1.3

GIVES: SOIL LOSS AT 120 TONNES/HA (VERY LOW)
 STORAGE VOLUME = 91 M3/HA/YR AT 1.3 T/M3

BASIN SIZING PER HA:

2 MONTH STORAGE VOLUME = 91/6 = 15.2 M3/HA

SETTLING ZONE: CV=0.6 (DEFAULT) R(80%/5 DAY) = 23.6***

GIVES SETTLING ZONE REQUIRED OF 142 M3/HA

TOTAL VOLUME OF BASIN REQUIRED APPROX = 160 M3/HA

ADOPT VALUE – 190 M3/HA

* K – ASSUMED DEFAULT – MODERATE TO HIGH

**LS – VALUE EQUIVALENT TO 60M AT 5%

***R – CAMPBELLTOWN

CONSTRUCTION SITE DEWATERING ACTIVITIES

- FOR DEWATERING OF SEDIMENTATION CONTROLS, EXCAVATIONS, CULVERT AND DRAINAGE CONSTRUCTIONS & LOW ROAD FORMATIONS.
- CONCRETE WASH OR WASTE WATER NOT TO BE DISCHARGED TO SEDIMENT BASINS FOR TREATMENT.
- CONCRETE WASH/ WASTE WATER TO BE STORED IN DESIGNATED CONCRETE WASH BAY

1. FIRST ASSESS OPPORTUNITIES FOR RE USE OF SITE (E.G. FOR COMPACTION, DUST SUPPRESSION)
2. UTILISE DEWATERING CHECKLIST TO RECORD TESTING AND TREATMENT OF DETAINED WATERS
3. ASSESS WATER SAMPLING AND TESTING REQUIREMENTS

WATER QUALITY SAMPLING AND TESTING MAY INCLUDE

- SAMPLE COLLECTION AND LABORATORY TESTING OR
- INSITU FIELD ASSESSMENT. FIELD ASSESSMENT CAN BE WITH CALIBRATED COMPARISON SAMPLES, TURBIDITY TUBES, AND PORTABLE PROBE ANALYSIS.
- ALL PERSONS UNDERTAKING TESTING WILL BE TRAINED IN CORRECT METHODOLOGY AND USED OF EQUIPMENT

4. WATER QUALITY TREATMENT PRIOR TO DISCHARGE.

- A) TREAT WITH FINE GYPSUM AT AN INITIAL RATE OF ~30-50KG/100M3 OF DETAINED WATER (OR OTHER APPROVED FLOCCULENT) – SEE FIGURE BELOW.

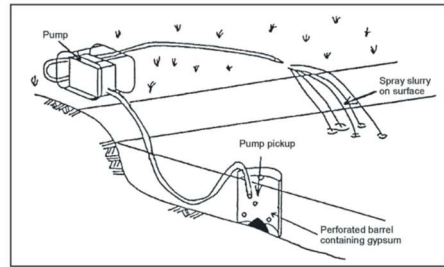


Figure E1. Application of gypsum

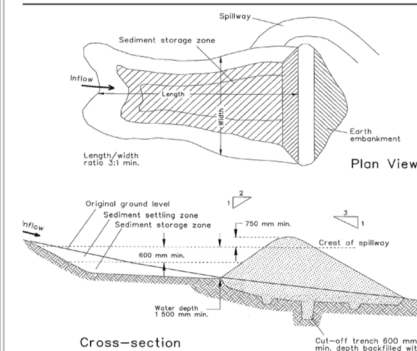
- B) PH ADJUSTMENT USING A BASE SUCH AS HYDRATED LIME (FOR ACIDIC WATERS) AND INVERSELY AN ACID SUCH AS HYDROCHLORIC ACID (FOR ALKALINE WATERS).
- C) TEST AND REPEAT REQUIRED TREATMENTS WQ NOMINATED WITHIN PROJECT ENVIRONMENT PROTECTION LICENSE OR OTHERWISE:
- TOTAL SUSPENDED SOLIDS 50MG/L
 - PH 6.5 – 8.5
 - NO VISIBLE OIL AN GREASE

5. CONSIDERATIONS DURING DEWATERING

- ALL DEWATERING ACTIVITIES WILL BE INSPECTED AND MONITORED BY INDUCTED AND COMPETENT PERSONNEL.
- PRIOR TO DEWATERING ACTIVITY THE INTAKE AND OUTLET, PUMP, AND DISCHARGE LOCATION WILL BE INSPECTED.
- DEWATERING ACTIVITIES WILL BE DIRECTLY SUPERVISED FOR THE ENTIRE DURATION
- AVOID PUMP INLET FALLING TO THE LEVEL OF DEPOSITED SEDIMENT,
- OUTLET TO STABLE SURFACE AND NOT CAUSE SCOUR OR FURTHER EROSION TO RECEIVING LOCATION
- DO NOT DISCHARGE DIRECTLY TO WATERWAYS OR STORMWATER

6. RECORD KEEPING

- RECORDS MUST BE KEPT ONSITE OF ALL SAMPLES/TESTING ACTIVITIES.
- RECORDS MUST BE KEPT ONSITE OF ALL DISCHARGES.
- SEE WATER QUALITY /DEWATERING CHECKLIST IN SWMP AS RECORD OF DEWATERING ACTIVITIES

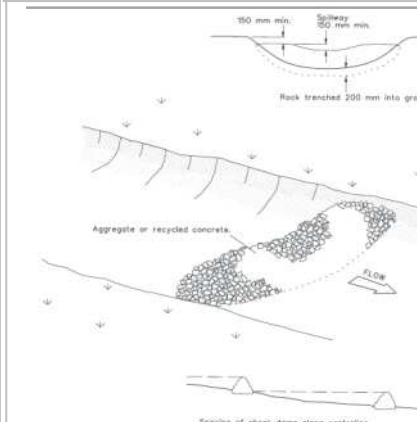


Construction Notes

- Remove all vegetation and topsoil from under the dam wall and from within the storage area.
- Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the rear crest.
- Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
- Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
- Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
- Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
- Construct the emergency spillway.
- Rehabilitate the structure following the SWMP.

EARTH BASIN - WET
APPLIES TO TYPE D AND TYPE F SOILS ONLY

SD 6-4

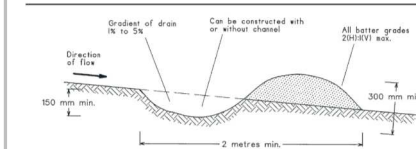


Construction Notes

1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should sit as a spillway, being at least 150 mm lower than the outer edges.
4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM

SD 5-



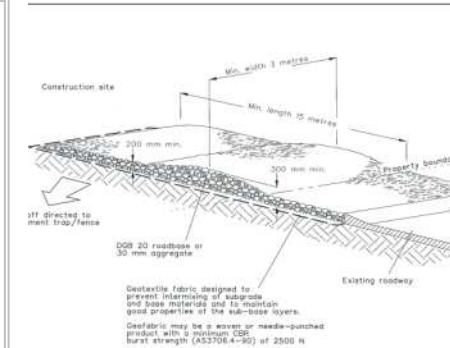
NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-



Geotextile fabric designed to prevent intermixing of aggregate and base materials and to maintain good properties of the sub-base layers. Geotextile may be a woven or needle-punched product with a minimum CBR burst strength (AS3708.4-95) of 2500 N

Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence

STABILISED SITE ACCESS

SD 6-1

Document Set ID: 2279862
 Version: 1, Version Date: 01/07/2024

ErSed Environmental Pty Ltd
 PO Box 1124 Leichhardt 2040
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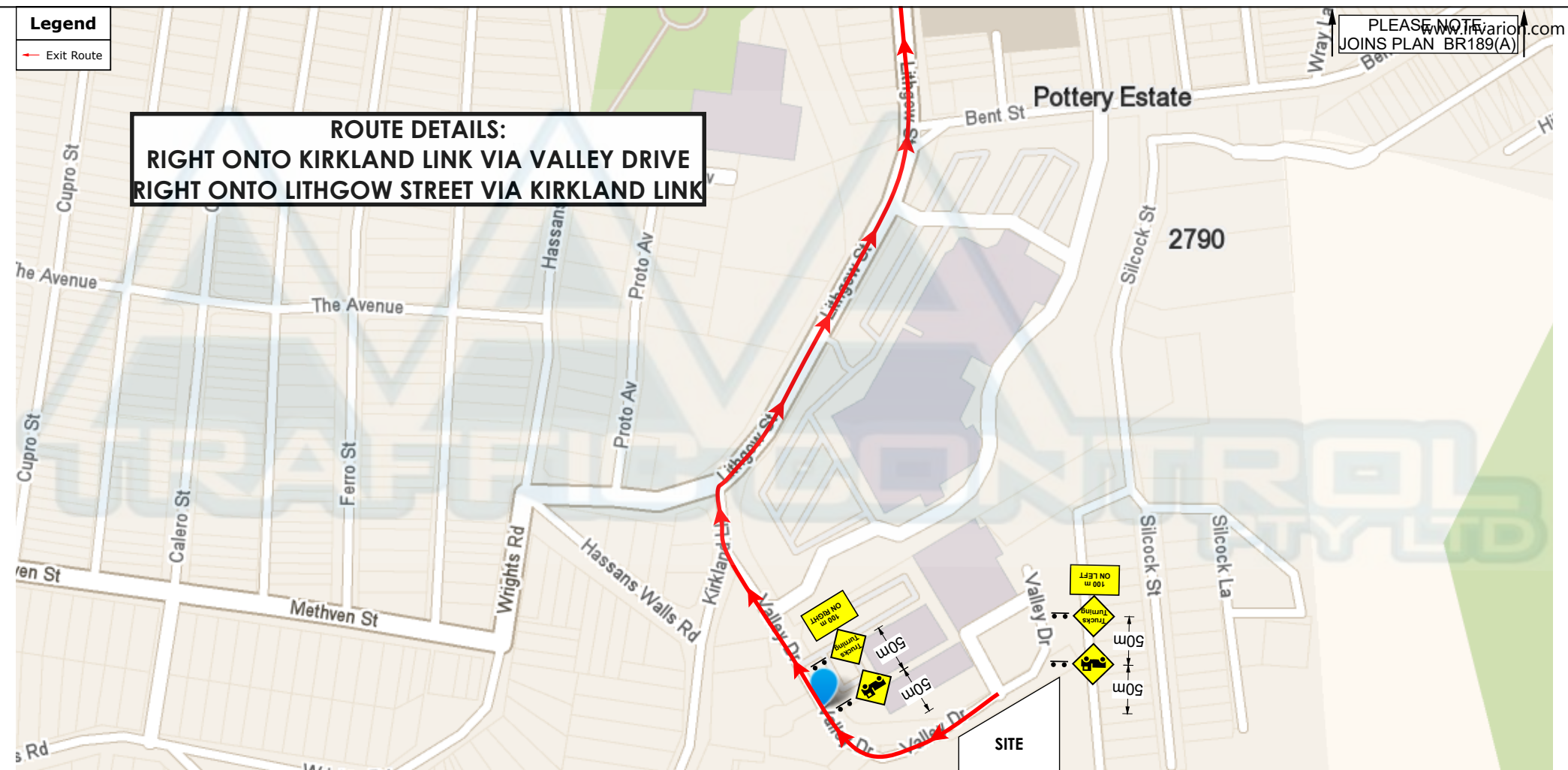
SHEETS IN THIS PLAN SET	
1. GENERAL ARRANGEMENT (SHEET 1001)	
2. NOTES AND DETAILS TO ESC (SHEET 0001)	
CLIENT BASE PLAN:	

ERSED REF:	21018
DRAWN	CV
CREATED	JUNE 2021
DATE THIS AMDT	06 JUNE 24
CLIENT	KEMDAR

PROGRESSIVE EROSION AND SEDIMENT CONTROL PLAN			
NOTES AND DETAILS TO EROSION AND SEDIMENT CONTROL			
EW 0001	2 of 2	0	
PREFIX	NUMBER	SHEET	AMDT
Print Date: 17 July 2024, 8:25 AM			

Legend
 Exit Route

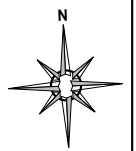
**ROUTE DETAILS:
 RIGHT ONTO KIRKLAND LINK VIA VALLEY DRIVE
 RIGHT ONTO LITHGOW STREET VIA KIRKLAND LINK**



PH: 02 9675 7731 F: 02 9675 7744
 10 Coventry Place
 Mount Druitt NSW 2770
 www.aattrafficcontrol.com.au
 info@aattrafficcontrol.com.au
 A.B.N. 78 105 021 869

NOTES:
 1. All Traffic Control works; signs and devices to comply with Australian Standard AS 1742.3.
 2. Adjustments to TCP may be only made by persons holding an RMS "Select and Modify" ticket or higher.
 3. All traffic control devices may only be set out by persons holding an RMS "Apply Traffic Control Plans" ticket or higher.
 4. Traffic control personnel must hold an RMS "Traffic Controller" ticket or higher.
 5. Signs to be erected so they are visible to motorists and not a hazard to pedestrians.
 6. Traffic controllers to escort pedestrians past the work area.
 7. Traffic Controllers who are on constant Stop-Go, must be relieved for a minimum period of 15 minutes every two hours. As per the Australian Standards and the WH&S Act.
 8. Site ganger is to conduct a 'tool box talk' and complete the adequate paperwork to support the discussion.
 9. A 'risk assessment' to be conducted on site, prior setup to determine the queue length and site distance to the active TCP.
 10. If an incident occurs on site, an 'Incident report form' MUST be completed immediately. Upon completion of the incident report form, site Ganger is to notify AAA head office.

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CLIENT: **KEMDAR PTY LTD**
 CONTACT: ANGELA O'CONNOR PH: 0438 831 304
 PROJECT: VEHICLE EXIT ROUTE
 LOCATION: VALLEY DRIVE, POTTERY ESTATE
 UBD: PO:

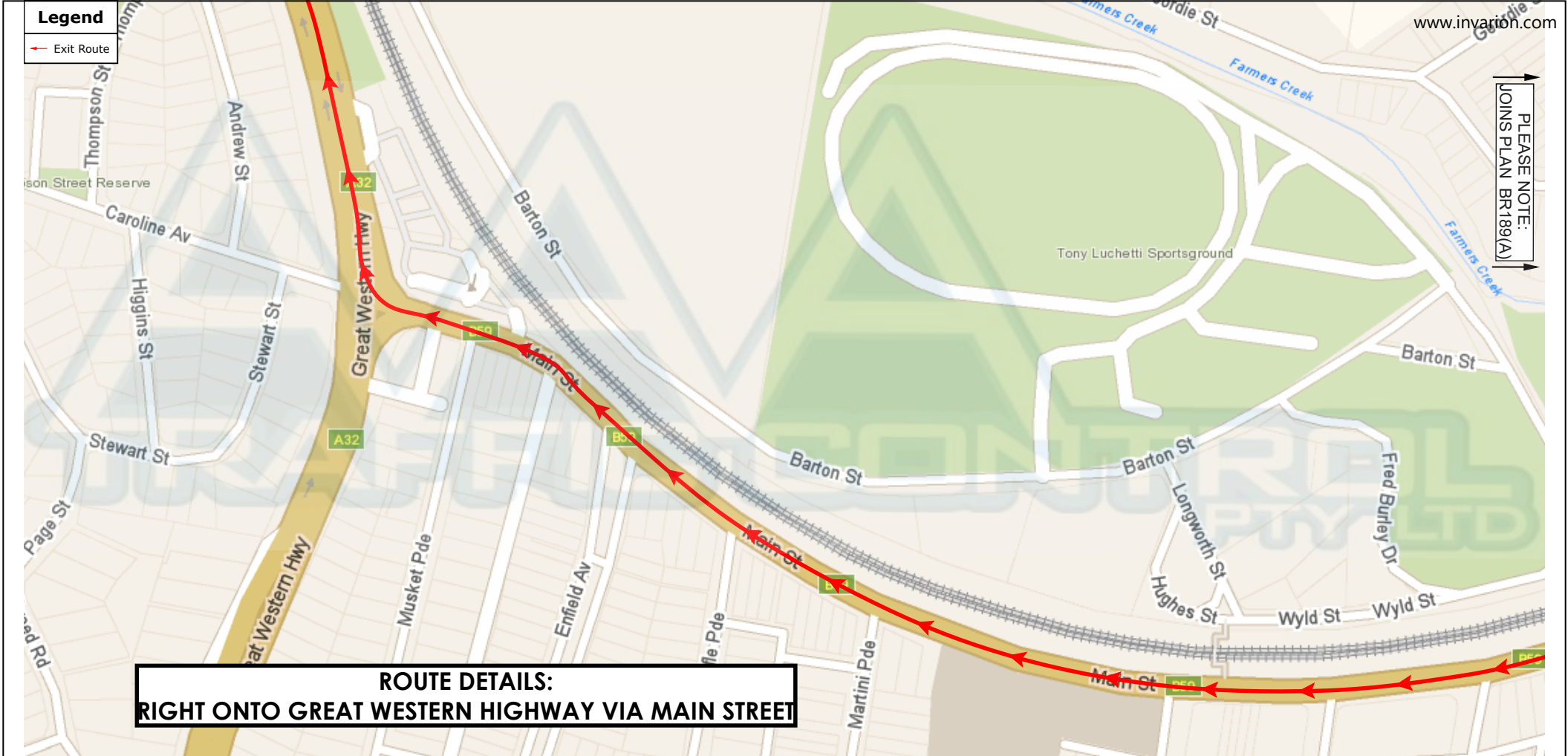
MANAGEMENT
 VEHICLE ROUTE
 LANE MERGE
 CONTRA FLOW
 DETOUR
 ROAD CLOSURE
 SHOULDER WORKS

ROAD CLASSIFICATION
 PEDESTRIAN MGMT.
 INTERMITTENT
 STATE (RTA/RMS)
 REGIONAL (COUNCIL & RTA/RMS)
 LOCAL (COUNCIL)

JOB NO. **6009**
 PLAN NO: **BR189(C)**
 AUTHOR: **THIOLEN NAIDOO**
 CERT: **0030490926**
 DATE: **11/10/2017**
 SIGN:

REV DATE
 SCALE **N.T.S**

PURPOSE OF USAGE	RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS		RECOMMENDED TAPER LENGTHS			
	APPROACH SPEED (km/h)	MAX SPACING (m)	APPROACH SPEED (km/h)	TRAFFIC CONTROL AT START	LATERAL SHIFT TAPER	MERGE TAPER
All purposes on residential or commercial streets	<= 50	4	< 45	15	0	15
Center-line on approach to Traffic Controller position	All cases	4	46 - 55	15	15	30
Outer edge of traffic line - i.e. working on shoulder	51-70 / >70	18 / 24	56 - 65	30	30	60
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	76 - 85	N/A	80	130
Separating opposing traffic on multilane undivided road	51-70 / >70	12 / 18	86 - 95	N/A	90	145
Adjacent to a closed lane on a multilane road	51-70 / >70	16 / 24	96 - 105	N/A	100	160
Merge tapers	51-70 / >70	9 / 12	> 105	N/A	110	180
Lateral shift tapers	51-70 / >70	12 / 18				
Protecting freshly painted lines	51-70 / >70	24 / 60				
FIGURES EXTRACTED FROM RTA TCWS MANUAL V4.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO.						



PLEASE NOTE:
JOINS PLAN BR189(A)

**ROUTE DETAILS:
RIGHT ONTO GREAT WESTERN HIGHWAY VIA MAIN STREET**

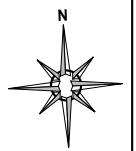


PH: 02 9675 7731 F: 02 9675 7744
10 Coventry Place
Mount Druitt NSW 2770
www.aaatraficcontrol.com.au
info@aaatraficcontrol.com.au
A.B.N. 78 105 021 869

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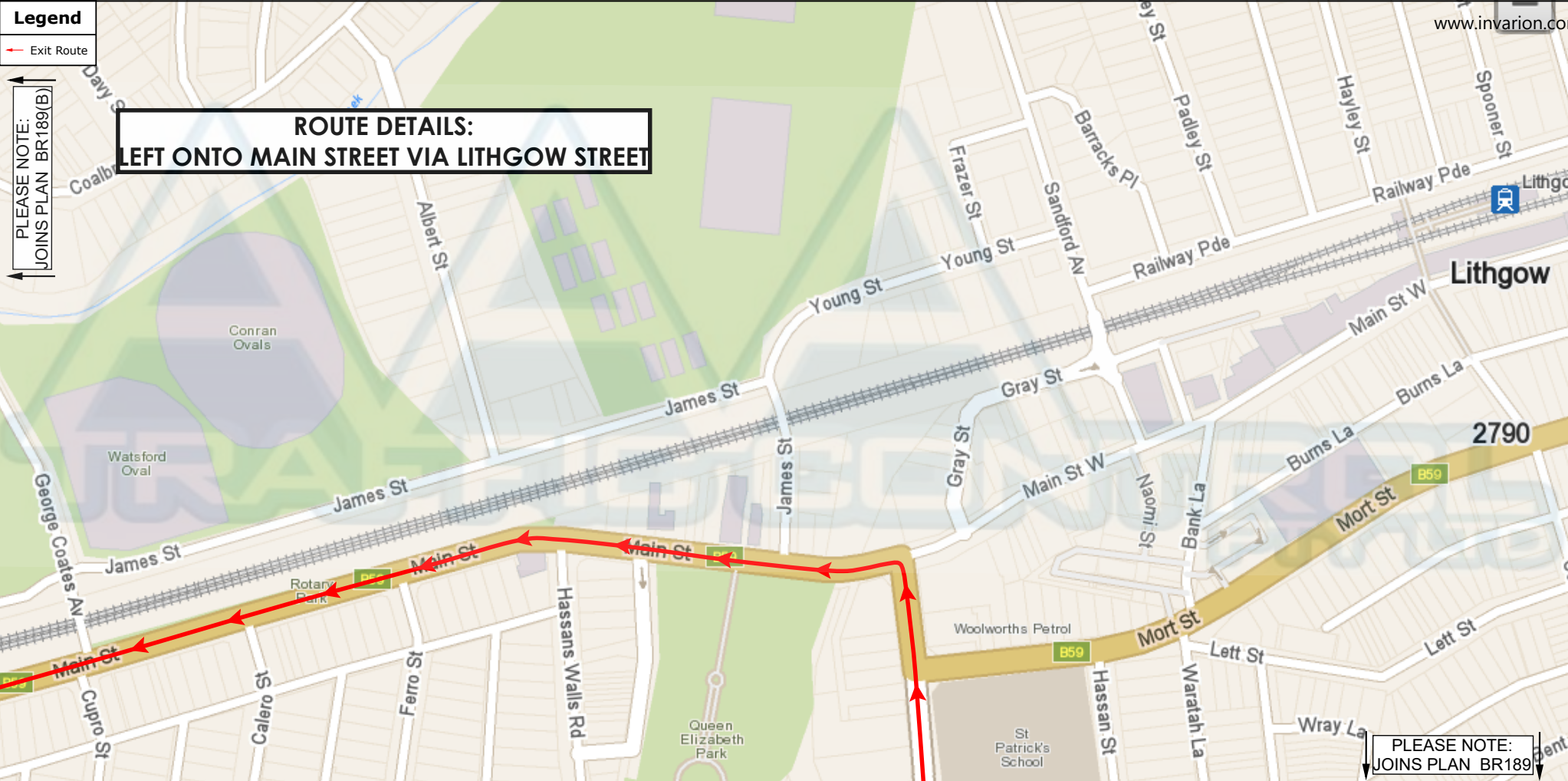


CLIENT: KEMDAR PTY LTD
CONTACT: ANGELA O'CONNOR PH: 0438 831 304
PROJECT: VEHICLE EXIT ROUTE
LOCATION: VALLEY DRIVE, POTTERY ESTATE
UBD: _____ PO: _____

MANAGEMENT	<input type="radio"/> PEDESTRIAN MGMT.
<input checked="" type="radio"/> VEHICLE ROUTE	<input type="radio"/> INTERMITTENT
<input type="radio"/> LANE MERGE	
<input type="radio"/> CONTRA FLOW	ROAD CLASSIFICATION
<input type="radio"/> DETOUR	<input checked="" type="radio"/> STATE (RTA/RMS)
<input type="radio"/> ROAD CLOSURE	<input type="radio"/> REGIONAL (COUNCIL & RTA/RMS)
<input type="radio"/> SHOULDER WORKS	<input checked="" type="radio"/> LOCAL (COUNCIL)

JOB NO. 6009	PLAN NO: BR189(B)
<input checked="" type="radio"/> TCP	AUTHOR: THIOLEN NAIDOO
<input type="radio"/> TMP	CERT: 0030490926
<input type="radio"/> CTMP	DATE: 11/10/2017
REV _____	SIGN:
DATE _____	
SCALE N.T.S	

PURPOSE OF USAGE	RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS		RECOMMENDED TAPER LENGTHS			
	APPROACH SPEED (km/h)	MAX SPACING (m)	APPROACH SPEED (km/h)	TRAFFIC CONTROL AT START	LATERAL MERGE TAPER	MERGE TAPER
All purposes on residential or commercial streets	<= 50	4	< 45	15	0	15
Center-line on approach to Traffic Controller position	All cases	4	46 - 55	15	15	30
Outer edge of traffic line - i.e. working on shoulder	51-70 / >70	18 / 24	56 - 65	30	30	60
Separating opposing traffic on 2 lane 2 way road	51-70 / >70	12 / 18	76 - 85	N/A	80	130
Separating opposing traffic on multilane undivided road	51-70 / >70	12 / 18	86 - 95	N/A	90	145
Adjacent to a closed lane on a multilane road	51-70 / >70	16 / 24	96 - 105	N/A	100	160
Merge tapers	51-70 / >70	9 / 12	> 105	N/A	110	180
Lateral shift tapers	51-70 / >70	12 / 18				
Protecting freshly painted lines	51-70 / >70	24 / 60				
FIGURES EXTRACTED FROM RTA TCWS MANUAL V4.0 (TABLES 5.1 & 5.2). REFER TO MANUAL FOR FURTHER INFO.						



Legend
 - Exit Route
 PLEASE NOTE:
 JOINS PLAN BR189(B)

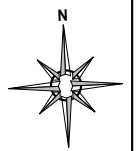
**ROUTE DETAILS:
 LEFT ONTO MAIN STREET VIA LITHGOW STREET**

PLEASE NOTE:
 JOINS PLAN BR189

PH: 02 9675 7731 F: 02 9675 7744
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CONTACT: ANGELA O'CONNOR PH: 0438 831 304	
PROJECT: VEHICLE EXIT ROUTE	
LOCATION: VALLEY DRIVE, POTTERY ESTATE	
UBD:	

MANAGEMENT	<input type="radio"/> PEDESTRIAN MGMT.
<input checked="" type="radio"/> VEHICLE ROUTE	<input type="radio"/> INTERMITTENT
<input type="radio"/> LANE MERGE	
<input type="radio"/> CONTRA FLOW	ROAD CLASSIFICATION
<input type="radio"/> DETOUR	<input checked="" type="radio"/> STATE (RTA/RMS)
<input type="radio"/> ROAD CLOSURE	<input type="radio"/> REGIONAL (COUNCIL & RTA/RMS)
<input type="radio"/> SHOULDER WORKS	<input checked="" type="radio"/> LOCAL (COUNCIL)

JOB NO. 6009	PLAN NO: BR189(A)
<input type="radio"/> TMP	AUTHOR: THIOLEN NAIDOO
<input type="radio"/> CTMP	CERT: 0030490926
REV DATE	DATE: 11/10/2017
SCALE N.T.S	SIGN:

PURPOSE OF USAGE	RECOMMENDED MAXIMUM SPACING OF CONES AND BOLLARDS		RECOMMENDED TAPER LENGTHS			
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